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### The Claims

1. (Original) A method comprising:  
identifying that a storage array is close to permanently losing data; and  
giving, in response to identifying that the storage array is close to permanently losing data, input/output (I/O) requests for rebuilding at least a portion of the storage array priority over host I/O requests.
2. (Original) A method as recited in claim 1, wherein the identifying comprises identifying that the storage array is close to permanently losing data when failure of one additional storage device of a plurality of storage devices in the storage array would result in permanent data loss in the storage array.
3. (Original) A method as recited in claim 1, wherein the storage array comprises a redundant array of independent disks (RAID) system.
4. (Currently amended) A method as recited in claim 3, wherein:  
the RAID system includes a plurality of RAID levels;  
the identifying comprises identifying when at least one of the plurality of RAID levels is close to permanently losing data; and  
giving[[.]] rebuild I/O requests priority over host I/O requests only for the at least one RAID level that is close to permanently losing data.

5. (Original) A method as recited in claim 4, wherein one of the plurality of RAID levels includes RAID level 6.

6. (Original) A method as recited in claim 1, further comprising giving host I/O requests priority over rebuild I/O requests if the storage array is not close to permanently losing data.

7. (Original) A method as recited in claim 1, wherein giving I/O requests for rebuilding at least a portion of the storage array priority over host I/O requests comprises:

placing both I/O requests for rebuilding at least the portion of the array and host I/O requests into a queue in the order they are received; and

processing the I/O requests for rebuilding and the host I/O requests from the queue in a first-in-first-out (FIFO) manner.

8. (Original) A method as recited in claim 1, wherein giving I/O requests for rebuilding at least a portion of the storage array priority over host I/O requests comprises:

allocating, among a plurality of resources in the storage array and a corresponding controller, more resource usage to the I/O requests for rebuilding than to the host I/O requests.

9. (Original) A method as recited in claim 1, wherein giving I/O requests for rebuilding at least a portion of the storage array priority over host I/O requests comprises preempting a host I/O request in favor of a rebuild I/O request.

10. (Original) A method as recited in claim 1, wherein how many failed disks in the storage array can be endured without permanently losing data varies based at least in part on a particular redundant array of independent disks (RAID) architecture level of the storage array.

11. (Original) One or more computer-readable media having stored thereon a computer program that, when executed by one or more processors of a computer, causes the one or more processors to perform acts including:

identifying that a storage array is close to permanently losing data; and

giving, in response to identifying that the storage array is close to permanently losing data, input/output (I/O) requests for rebuilding at least a portion of the storage array priority over host I/O requests.

12. (Original) One or more computer-readable media as recited in claim 11, wherein the identifying comprises identifying that the storage array is close to permanently losing data when failure of one additional storage device of a plurality of storage devices in the storage array would result in permanent data loss in the storage array.

13. (Original) One or more computer-readable media as recited in claim 11, wherein giving I/O requests for rebuilding at least a portion of the storage array priority over host I/O requests comprises:

allocating, among a plurality of resources in the storage array and a corresponding controller, more resource usage to the I/O requests for rebuilding than to the host I/O requests.

14. (Original) One or more computer-readable media as recited in claim 11, wherein how many failed disks in the storage array can be endured without permanently losing data varies based at least in part on a particular redundant array of independent disks (RAID) architecture level of the storage array.

15. (Currently amended) An apparatus comprising:

a priority identifier to determine whether host input/output (I/O) requests or rebuild I/O requests for a storage array are to have priority; and

a request dispatcher, communicatively coupled to the priority identifier, to select host I/O requests and rebuild I/O requests for execution based at least in part on whether host I/O requests or rebuild I/O requests are to have priority;

a request queue structure into which the rebuild I/O requests and the host I/O requests are placed to await selection for execution by the request dispatcher;  
and

a queue controller, communicatively coupled to the request queue structure,  
configured to order requests in the queue structure so that host I/O requests are  
higher than rebuild requests only if host I/O requests are to have priority.

16. (Original) An apparatus as recited in claim 15, wherein the storage array comprises a redundant array of independent disks (RAID) system.

17-19. (Canceled).

20. (Currently amended) An apparatus as recited in claim 15[[17]], wherein the request queue structure includes a plurality of queues.

21. (Original) An apparatus as recited in claim 15, further comprising:  
a plurality of resources; and  
wherein the request dispatcher is to limit the host I/O request usage of at least one of the plurality of resources if rebuild I/O requests are to have priority.

22. (Original) An apparatus as recited in claim 15, wherein the priority identifier is to determine that rebuild I/O requests are to have priority if failure of one additional storage device of a plurality of storage devices in the storage array would result in data loss in the storage array.

23. (Original) An apparatus as recited in claim 15, further comprising a request processor, communicatively coupled to the request dispatcher, to process I/O requests and preempt a host I/O request in favor of a rebuild I/O request.